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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	IS&R	L1	2745	(382/141-149).CCLS.	US-PGPUB; USPAT	2007/02/08 10:44	
2	IS&R	L2	173	(348/92).CCLS.	US-PGPUB; USPAT	2007/02/08 10:44	
3	BRS	L3	33	(3-d or 3d or (three near1 dimension$3)) same imag$3 same (part$1 or manufactured) same (flaw$1 or defect$4 or crack$1 or void$1) same (identif$6 or match$4 or compar$6 or collat$4 or correlat$4) same (locat$4 or position$3 or spatial or co-ordinate$1 or coordinate$1)	US-PGPUB; USPAT	2007/02/08 11:00	
4	BRS	L4	17	3 same (inspect$4 or test$3 or evaluat$4 or qualit$6)	US-PGPUB; USPAT	2007/02/08 10:49	
5	BRS	L6	0	2 and 4	US-PGPUB; USPAT	2007/02/08 10:50	
6	BRS	L5	7	1 and 4	US-PGPUB; USPAT	2007/02/08 10:58	
7	BRS	L7	4281	display$3 with (part$1 or image$1) with (flaw$1 or void$1 or defect$4)	US-PGPUB; USPAT	2007/02/08 10:59	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
8	BRS	L8	111	7 same (3-d or 3d or (three near1 dimension$3))	US-PGPUB; USPAT	2007/02/08 11:59	
9	BRS	L9	47	8 same (measur$6 or inspect$4 or test$4)	US-PGPUB; USPAT	2007/02/08 11:01	
10	BRS	L10	7	9 same (recogn$6 or identif$7 or judg$6)	US-PGPUB; USPAT	2007/02/08 11:09	
11	BRS	L11	5	(identif$6 near3 (flaw$1 or defect$4 or void$1 or crack$1)) same (align$5 or documented or documenting or correct$3) same (inspect$4 or test$3) same imag$3 same ((three near1 dimension$3) or 3d or 3-d)	US-PGPUB; USPAT	2007/02/08 11:14	
12	IS&R	L12	615	(382/149).CCLS.	US-PGPUB; USPAT	2007/02/08 11:15	
13	BRS	L13	898	7 same (user$2 or operator$2 or expert$2)	US-PGPUB; USPAT	2007/02/08 11:15	
14	BRS	L14	18	13 same cad	US-PGPUB; USPAT	2007/02/08 11:15	
15	BRS	L15	1	12 and 14	US-PGPUB; USPAT	2007/02/08 11:17	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
16	BRS	L16	67	12 and 13	US-PGPUB; USPAT	2007/02/08 11:17	
17	BRS	L17	15	16 and cad	US-PGPUB; USPAT	2007/02/08 11:20	
18	BRS	L18	15	16 and (three near2 dimension$3)	US-PGPUB; USPAT	2007/02/08 11:35	
19	BRS	L19	1	"6701615".pn.	US-PGPUB; USPAT	2007/02/08 11:49	
20	BRS	L20	1	"6378387".pn.	US-PGPUB; USPAT	2007/02/08 11:55	
21	BRS	L21	1	portable adj nondestructive adj examin$6	US-PGPUB; USPAT	2007/02/08 11:56	
22	BRS	L22	14	mariam and (part$1 near9 inspect$5)	US-PGPUB; USPAT	2007/02/08 11:57	
23	BRS	L23	7	22 and (3-d or 3d or (three near1 dimension$3))	US-PGPUB; USPAT	2007/02/08 12:02	
24	BRS	L24	7440	((non near1 destructive) or nondestrctive) same (test$3 or inspect$4)	US-PGPUB; USPAT	2007/02/08 12:00	
25	BRS	L25	1764	24 same (flaw$1 or void$1 or defect$4 or crack$1)	US-PGPUB; USPAT	2007/02/08 12:00	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
26	BRS	L26	265	25 same imag$3	US-PGPUB; USPAT	2007/02/08 12:01	
27	BRS	L27	28	26 same (compar$6 or correlat$4 or collat$4 or match$4)	US-PGPUB; USPAT	2007/02/08 12:01	
28	BRS	L28	16	27 and ((3-d or 3d or (three near1 dimension$3)) near10 imag$3)	US-PGPUB; USPAT	2007/02/08 12:02	

Refine Search

Search Results -

Terms	Documents
L24 and ((3d or 3-d or (stl near1 format) or (three near1 dimension$3)) near7 (model or template or stored or reference or represent$6 or prestored or known))	3

Database:
US Pre-Grant Publication Full-Text Database
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US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L25

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Search History

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Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT; PLUR=YES; OP=ADJ		
L1	(flaw$1 or defect$4 or crack$1 or void$1 or (lack near1 fusion near1 weld) or (incomplete$1 near1 weld) or rivet) same (part or casting$3 or (circuit near1 board) or (windmill near1 blade) or ((tub$2 or cylinder$1) near9 jet)) same (imag$3 or ((x-ray or ultrasound or (eddy near1 current) or infrar$2) near1 imag$3)) same (test$3 or inspect$4)	2002	L1
L2	L1 same ((stl near1 format) or 3d or 3-d or (three near1 dimension$3))	76	L2
L3	L2 same ((3d or 3-d or (stl near1 format) or (three near1 dimension$3)) near5 (model or representation or template or reference or prestored or stored or known))	14	L3
L4	L3 same (align$6 or repair$4 or correct$5)	3	L4
L5	l2 same cad	5	L5
	DB=USPT; PLUR=YES; OP=ADJ		
L6	6173066.pn.	1	L6
	DB=PGPB,USPT; PLUR=YES; OP=ADJ		

L7	L2 same ((cad or 3d or 3-d or (stl near1 format) or (three near1 dimension$3)) near5 (model or representation or template or reference or prestored or stored or known))	14	L7
L8	L1 same ((cad or 3d or 3-d or (stl near1 format) or (three near1 dimension$3)) near5 (model or representation or template or reference or prestored or stored or known))	17	L8
L9	L8 same (inspect$4 or test$3)	17	L9
L10	l1 same manufactur$3	262	L10
L11	l10 same ((locat$4 or identif$4 or detect$4 or judg$5) near4 (flaw$1 or defect$4 or crack$1 or void$1 or (lack near1 fusion near1 weld) or (incomplete$1 near1 weld) or rivet))	122	L11
L12	L11 same (flaw$1 or defect$4 or void)	121	L12
L13	l12 same ((cad or 3d or 3-d or (stl near1 format) or (three near1 dimension$3)) near5 (model or representation or template or reference or prestored or stored or known))	1	L13
L14	L12 same ((test$3 or inspect$4) near7 part$1)3	0	L14
L15	L12 same ((test$3 or inspect$4) near7 part$1)	33	L15
L16	l15 and ((cad or 3d or 3-d or (stl near1 format) or (three near1 dimension$3)) near5 (model or representation or template or reference or prestored or stored or known))	5	L16
L17	l12 same ((creat$4 or generat$4) near5(cad or 3d or 3-d or (stl near1 format) or (three near1 dimension$3)))	0	L17
L18	l12 same (3d or 3-d or (stl near1 format) or (three near1 dimension$3))	5	L18
L19	((identif$6 or locat$4 or judg$5) near5 (flaw$1 or defect$4 or void)) same imag$3 same (inspect$4 or test$4) same (3d or 3-d or (three near1 dimension$3))	66	L19
L20	L19 same part$1	8	L20
L21	("5774568"|"6118540"|"6341153"|"6466643"|"6539107"|"6614872"|"6618465").PN.	7	L21
L22	l2 and L21	0	L22
L23	l1 and L21	0	L23
L24	l21 and ((locat$4 or identif$4 or detect$4 or judg$5) near4 (flaw$1 or defect$4 or crack$1 or void$1 or (lack near1 fusion near1 weld) or (incomplete$1 near1 weld) or rivet))	6	L24
L25	l24 and ((3d or 3-d or (stl near1 format) or (three near1 dimension$3)) near7 (model or template or stored or reference or represent$6 or prestored or known))	3	L25

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Scholarly articles for **non destructive flaw image three dimensional inspection**

Automated Flaw Detection in Aluminum Castings Based on ... - Mery - Cited by 31
Eddy current surface mapping system for flaw detection - Edmonds - Cited by 21
Enhancement of image quality by utilization of a priori ... - Tbui - Cited by 16

Eight NDE Related SBIR Awards from the National Science Foundation
Title: **FLAW INSPECTION** IN NONFERROUS CONDUCTORS USING MAGNETO- OPTIC DETECTION ... **Image** processing **Non-destructive** evaluation. Title: **THREE DIMENSIONAL** ...
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Eight NDE Related SBIR Awards from the US Department of Energy
Image processing. Title: "METHOD & DEVICE FOR **NONDESTRUCTIVE INSPECTION** OF ... DATA ARRAY WILL THEN BE USED TO RECONSTRUCT A **THREE-DIMENSIONAL IMAGE** OF THE ...
www.ntiac.com/sbir/doe1_8.html - 17k - Cached - Similar pages

Non-destructive inspection, testing and evaluation system for ...
A method for the **non-destructive inspection** and testing of aircraft ... When viewed together, these dual **images** give a **three-dimensional** view of the ...
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Inspection technologies protect and enhance materials for power plants
Non-destructive evaluation (NDE) tools enable engineers to detect **flaws** or ... High-resolution **three-dimensional** X-ray CT scanners that provide **images** of ...
www.anl.gov/Media_Center/News/2005/ET050805.html - 26k - Cached - Similar pages

[PDF] Shape classification of **flaw** indications in **three-dimensional** ...
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three-dimensional images. Since suspect regions may. have different sizes, locations and ....HANSTEAD, P.D. (Eds.): 'Reliability in **non-destructive** testing' ...
ieeexplore.ieee.org/iel1/2199/9049/00401282.pdf?arnumber=401282 - Similar pages

Nondestructive testing of specularly reflective objects using ...
When applied to **nondestructive flaw** detection, two separate recordings of the ... vision technique for **nondestructive inspection** of **three-dimensional** ...
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AUTOMATED **INSPECTION** OF MOVING ALUMINIUM CASTINGS
... **Inspection** by Finding Correspondence of Potential **Flaws** in Multiple Radioscopic **Images**. In Proceedings of the 15th World Conference on **Non-Destructive** ...
www.ndt.net/article/ecndt02/234/234.htm - 18k - Cached - Similar pages

Evaluation of Type and Dimensions of Discontinuities Through **Three** ...
A combined correlation of the **three dimensional image** will improve the ... O. Forly, B. Pettersen, The Uncertainty of **Non-Destructive** Examination, ...
www.ndt.net/article/wcndt00/papers/idn822/idn822.htm - 21k - Cached - Similar pages

NASA - Thermal Protection and **Non-Destructive** Evaluation

Langley researchers have demonstrated **non-destructive** methods for detection of **flaws** in the Shuttle External **Image** to right: Langley researchers have ...
www.nasa.gov/centers/langley/exploration/rtf/rtf_thermal.html - 31k -
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Nondestructive Evaluation
By subtracting the reference **image**, they obtain a **three-dimensional**, ... **inspection**, **nondestructive** evaluation (NDE), **nondestructive** waste assay (NDA), ...
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Method for generating and displaying complex data derived from **non** ...
It is also known in the art to create **three-dimensional images** and to ... Method of **Flaw** Detection", is directed to tubing **inspection** and in particular to ...
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[PDF] Multiple **flaws** location by means of NDE ultrasonic arrays placed ...
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under **inspection**. Figure 3. Two-**dimensional** ultrasonic representation of the **three** artificial. **flaws** in Fig. 1, after the application of the new procedure ...
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Product & Service Category Results
Flaw detectors are **nondestructive** testing instruments that can detect or measure ... assist in the computerized design, **three-dimensional** (3D) modeling, ...
search.globalspec.com/ProductFinder/FindProducts?query=**image**%20capture&start=16&end=30 - 47k - Cached - Similar pages

[PDF] Large area terahertz imaging and **non-destructive** evaluation ...
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Terahertz (THz) imaging is being adopted for **non-destructive**. evaluation (NDE) applications in ... determine **three dimensional** structure within the sample ...
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[PDF] **Non-destructive** testing using radiographic **images** – a survey
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Non-destructive testing (NDT) is a method that examines the internal ... Detects internal defects from **three-dimensional**. **image** with the help of optical ...
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non destructive on GlobalSpec
Non-Destructive Testing Group is a full service **inspection** company ... **non**-invasive **three-dimensional** x-ray microscopy and for small animal imaging with ...
testing-services.globalspec.com/Industrial-Directory/**non_destructive** - 89k - Cached - Similar pages

imaging ultrasonic on GlobalSpec
Flaw Detectors (144 companies) **Flaw** detectors are **nondestructive** testing ... High speed acquisition scanner and **three-dimensional** display system using . ...
video-equipment.globalspec.com/Industrial-Directory/imaging_ultrasonic - 77k - Cached - Similar pages

Ultrasonic testing and **image** processing for in-progress weld ...
Ultrasonic methods are widely used in the **non-destructive** testing of all manner ... which contains full **three dimensional** information about the component. ...
www.surrey.ac.uk/eng/research/mechatronics/robots/People/mes3sl/UTpaper/paper.html - 20k - Cached - Similar pages

[PDF] **Non-destructive** Testing and Process Control Using X-ray Methods ...
File Format: PDF/Adobe Acrobat - View as HTML
This paper discusses the potential of two and **three-dimensional** computed X-ray ... used

more frequently for the **nondestructive inspection** of industrial ...
www.qnetworld.com/pdfs/X-ray%20NDT.pdf - Similar pages

[PS] **Three-dimensional** inversion of eddy current data for **non ...**
File Format: Adobe PostScript
Three-dimensional (3D) eddy current **non-destructive** evaluation of steam ... The configuration considered herein is that of a small internal **flaw** as ...
www.iop.org/EJ/article/0266-5611/14/3/019/ip8318.ps.gz - Similar pages

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laser optical measurement **inspection** system on GlobalSpec
These microscopes are often used for **dimensional** measurement with lower ... **Flaw** Detectors (144 companies) **Flaw** detectors are **nondestructive** testing ...
video-equipment.globalspec.com/Industrial-Directory/laser_optical_measurement_**inspection**_system - 89k - Cached - Similar pages

Sonotron NDT
The C- and B-Scan are accompanied with the **three-dimensional image** of the test ... Weld **Inspection** - 15th World Conference on **Non destructive** testing, Rome, ...
www.sonotronndt.com/article.asp?ArtID=16 - 21k - Cached - Similar pages

Expert: Machine Vision Expert
These surveys were related to machine vision (two/**three dimensional**, ... of: * Machine vision * Automated **inspection** * **Non-destructive** testing * **Image** ...
www.intota.com/viewbio.asp?bioID=603276&perID=108514 - 34k - Cached - Similar pages

YXLON – X-ray **inspection** for your safety - Glossary
Alongside **non-destructive** material testing, tasks involving measurement and ... Those **images** are subsequently computed to create a **three-dimensional image**. ...
www.yxlon.com/yxlon/yxlon_cms.nsf/pages/4F47DFE42B07BC07C125723E006052ED?OpenDocument - 16k - Cached - Similar pages

System and method for portable **nondestructive** examination with ...
It would be truly useful to have a system and method for creating **three-dimensional** CT **images** for **non-destructive** examination in real time. ...
www.patentstorm.us/patents/6341153-description.html - 29k - Cached - Similar pages

[PS] Eddy-current evaluation of **three-dimensional flaws** in flat ...
File Format: Adobe PostScript
the inverse problem at hand, the full **image** is **three dimensional** and one should introduce ... **flaw** reconstruction problems J. **Non-Destructive** Eval. 17 67–78 ...
www.iop.org/EJ/article/0266-5611/18/6/326/ip2626.ps.gz - Similar pages

[PDF] Abstract
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(a) radioscopic **image** with **three flaws**. (b) edge detection. ... Society of **Non-Destructive** Testing of Germany, Switzerland and Austria(DACH2000), May 29-31, ...
www.diinf.usach.cl/~dmery/papers/metal2003.pdf - Similar pages

[PDF] DRAFT Rpt 1 MMC/SiC
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impact evaluation by either **destructive** or **non-destructive** methods. ... **Dimensional** analysis, **image** processing, and automated **flaw** detection and measurement ...
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ScienceDirect - Composites Part B: Engineering : Ultrasonic ...
For these reasons, accurate **non-destructive** techniques are required to detect and ... producing altogether a typical **three-dimensional** spiral staircase. ...
linkinghub.elsevier.com/retrieve/pii/S1359836899000670 - Similar pages

[PDF] **NON-DESTRUCTIVE** X-RAY TESTING USING MULTIPLE VIEW GEOMETRY
File Format: PDF/Adobe Acrobat - View as HTML
5.2 **Three-dimensional flaw** simulation ... **Image** Processing in Radiology, German Society of **Non-Destructive** Testing, Berlin, June 23-25 2003. (accepted). ...
www.aaende.org.ar/ingles/sitio/biblioteca/material/T-081.pdf - Similar pages

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[redacted]

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#1 ((((inspect* or test* or examin*) <near/9> part*)<in>ab) <and>
((flaw* or crack* or irregular* or defect* or void*)<in>ab))<and>
((3d or 3-d or three dimension* or three-dimension*)<in>ab)

#2 ((((inspect* or test* or examin*) <near/9> part*)<in>ab) <and>
((flaw* or crack* or irregular* or defect* or void*)<in>ab))<and>
((3d or 3-d or three dimension* or three-dimension*)<in>ab)

[redacted]

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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1. **A partial discharge based defect-diagnosis system for cast-resin current**
Hong-Chan Chang; Ying-Piao Kuo; Chun-Yao Lee; Han-Wei Lin;
Universities Power Engineering Conference, 2004. UPEC 2004. 39th Internatic
Volume 1, 6-8 Sept. 2004 Page(s):233 - 237 Vol. 1
AbstractPlus | Full Text: PDF(257 KB) IEEE CNF
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2. **The Effect of Humidity on Partial Discharge Measurement**
Naprasert, S.; Chongchaikit, S.; Puthwattana, S.;
Properties and applications of Dielectric Materials, 2006. 8th International Cont
June 2006 Page(s):57 - 60
Digital Object Identifier 10.1109/ICPADM.2006.284116
AbstractPlus | Full Text: PDF(3829 KB) IEEE CNF
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3. **Test challenges for 3D circuits**
Mak, T.M.;
On-Line Testing Symposium, 2006. IOLTS 2006. 12th IEEE International
10-12 July 2006 Page(s):1 pp.
Digital Object Identifier 10.1109/IOLTS.2006.58
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4. **Experimental testing and computational stress analysis of printed circuit failure prediction of passive components under the depaneling load conc**
Lau, D.; Tsang, M.; Lee, S.W.R.; Lo, J.; Lifong Fu; Jiwen Jin; Sang Liu;
Electronic Components and Technology Conference, 2005. Proceedings. 55th
31 May-3 June 2005 Page(s):1783 - 1791 Vol. 2
Digital Object Identifier 10.1109/ECTC.2005.1442037
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5. **Inspection of machine parts by backprojection reconstruction**
Tan, H.; Viscito, E.; Delp, E.; Allebach, J.;
Robotics and Automation. Proceedings. 1987 IEEE International Conference o
Volume 4, Mar 1987 Page(s):503 - 508
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6. **The design of a 3D surface geometry acquisition system for highly irregu objects: with application to CZ semiconductor manufacture**
Sujan, V.A.; Dubowsky, S.;
Robotics and Automation, 1999. Proceedings. 1999 IEEE International Confer
Volume 2, 10-15 May 1999 Page(s):951 - 956 vol.2
Digital Object Identifier 10.1109/ROBOT.1999.772429
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7. **Associative memory for geon-based object identification**
Leonard, S.; Lepage, R.; Redarce, T.;
Neural Networks, 1999. IJCNN '99. International Joint Conference on
Volume 5, 10-16 July 1999 Page(s):3494 - 3499 vol.5
Digital Object Identifier 10.1109/IJCNN.1999.836229
AbstractPlus | Full Text: PDF(464 KB) **IEEE CNF**
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8. **Thermal management and design aspects of high performance plastic qu for smart-power ICs**
Kasem, M.;
Power Semiconductor Devices and ICs, 1996. ISPSD '96 Proceedings., 8th Int Symposium on
20-23 May 1996 Page(s):235 - 238
Digital Object Identifier 10.1109/ISPSD.1996.509489
AbstractPlus | Full Text: PDF(264 KB) **IEEE CNF**
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9. **A three-dimensional sensor for automatic visual inspection of soldered p**
Yoshimura, K.; Okamoto, S.;
Industrial Electronics Society, 1989. IECON '89., 15th Annual Conference of IE
6-10 Nov. 1989 Page(s):562 - 567 vol.3
Digital Object Identifier 10.1109/IECON.1989.69693
AbstractPlus | Full Text: PDF(428 KB) **IEEE CNF**
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10. **Solder joint reliability of surface mount chip resistors/capacitors on insu substrates**
Suhling, J.C.; Johnson, R.W.; White, J.D.; Matthai, K.W.; Knight, R.W.; Romar Burcham, S.W.;
Electronic Components and Technology Conference, 1994. Proceedings., 44t
1-4 May 1994 Page(s):465 - 473
Digital Object Identifier 10.1109/ECTC.1994.367551
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